

ABSTRACT

A cutting insert exhibiting excellent chipping resistance made of cubic boron nitride based ultra-high pressure sintered material. The cutting insert made of cubic boron nitride based ultra-high pressure sintered material exhibits, in a structural observation using an electron microscope, a substantial three-phase structure including a continuously bonded phase, a hard dispersed phase, and an intermediate adhesion phase intervening between the continuously bonded phase and the hard dispersed phase, and includes a cubic boron nitride based ultra-high pressure sintered material including: 15 to 56 wt% of at least two components selected from titanium nitride, titanium carbonitride, and titanium carbide, or 15 to 56 wt% titanium carbonitride, for forming the continuously bonded phase; 2 to 10 wt% nitride compound having titanium and aluminum and 2 to 10 wt% tungsten carbide, for forming the intermediate adhesion phase; and (35 to 65 wt%) cubic boron nitride, as the balance, for forming the hard dispersed phase.